

U.S. Department of Homeland Security

Goals and Objectives of the Workshop on Strategies for the Detection of Low Vapor Pressure Chemicals

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The breakout session process...



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Four break-out groups by topic ...

- 1 **Pre-Concentration**
 - Acquiring Atmospheric Sample and Concentrating Analyte Prior to Analysis
- 2 **Large Volume Sample Collection**
 - Pumping Massive Volumes of Atmosphere Past Sensor (>100L/min.)
- 3 **Short-Range Detection <3 m**
 - Surface and Aerosol Detection
- 4 **Long-Range Detection > 3 m**
 - Cloud Monitoring

For each Topic, HSARPA would like to know:

- **Current COMMERCIAL State of the Art**
- **Technical Limitations to COMMERCIAL Approach**
- **What Other Programs Exist to Address This Challenge**
- **Identify Existing Gaps**
- **What is DHS' Role in Filling These Gaps?**



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Drivers...

- AFFORDABILITY
- ID all possible approaches
- Desired Deliverable System
- Current Technology Maturity
- Time to Fielding
- Technology Risk
- Technology Breadth/Depth in R&D
- Prioritize investment across all possible approaches
- Diversify approach, reduce risks, and phase in development
- Maximize cooperation and minimize overlap with existing R&D programs
- User Special Environment



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